## Action VERBS

## **Definitions + Related Learning Outcomes**



for teachers

Analyse - Study or examine something in detail, break down something in order to bring out the essential elements or structure; identify parts and relationships, and interpret information to reach NoS 4 PW 6 conclusions

**Apply** - Select and use information and/or knowledge and understanding to explain a given situation or real circumstances NoS 5

Appreciate - Recognise the meaning of; have a practical understanding of

**BW 10** NoS 1 NoS 10

Calculate - Obtain a numerical answer, showing the relevant stages in the working **PW 2** 

*Classify* – Group things based on common **CW 4** characteristics

Compare - Give an account of the similarities and/or differences between two (or more) items or situations, referring to both/all of them throughout NoS 2 EaS 3

Conduct - To perform an activity

NoS 3

**BW 5** 

Consider - Describe patterns in data; use knowledge and understanding to interpret patterns; make predictions and check **CW 9** reliability

**Demonstrate** - Prove or make clear by reasoning or evidence; illustrating with examples or practical application CW 2

**Describe** - Develop a detailed picture or image of, for example, a structure or a process; using words or diagrams where appropriate; produce a plan, simulation or EaS 1 EaS 5 | CW 2 model EaS 4

> CW 3 **BW 4** PW 7 BW 2

**Design** - To conceive, create and execute according to plan NoS 3 **PW 5 PW 7** 

**Develop** - To evolve; to make apparent or expand in detail EaS 4 CW 2

Discuss - Offer a considered, balanced review that includes a range of arguments, factors or hypotheses: opinions or conclusions should be presented clearly and supported by appropriate evidence

EaS 8 PW 4 PW 8 BW 9

Evaluate (data) - Collect and examine data to make judgments and appraisals; describe how evidence supports or does not support a conclusion in an inquiry or investigation; identify the limitations of data in conclusions; make judgments about ideas, solutions or methods NoS 2

CW 10 BW 6 BW 10 **E&S 7** 

Evaluate (ethical judgement) - Collect and examine evidence to make judgments and appraisals; describe how evidence supports or does not support a judgement; identify the limitations of evidence in conclusions; make judgments about ideas, solutions or methods NoS 2

E&S 7 CW 10 BW 6 BW 10

Examine - Consider an argument or concept in a way that uncovers the <u>assumptions</u> and relationships of the issue **EaS 8 BW 6** 

Explain - Give a detailed account including NoS 3 reasons or causes

BW 3

**BW 8** BW 9

Explore - Observe, study, in order to establish facts **BW 2** EaS 2

Formulate - Express the relevant concept(s) or argument(s) precisely and systematically EaS 6

*Identify* - Recognise patterns, facts, or details; provide an answer from a number of possibilities; recognise and state briefly a distinguishing fact or feature NoS 4 PW 2

*Illustrate* – Use examples to describe something EaS 2 EaS 7 CW 9

Interpret - Use knowledge and understanding to recognise trends and draw conclusions from given information EaS 3

Investigate - Observe, study, or make a detailed and systematic examination, in order to establish facts and reach new CW 1 CW 6 CW 7 conclusions

CW 8 PW 3 BW 1 BW 5 BW 7

*Justify* - Give valid reasons or evidence to support an answer or conclusion NoS 4

Measure - Quantify changes in systems by reading a measuring tool **PW 2** 

**Model** - Generate a mathematical representation (e.g., number, graph, equation, geometric figure); diagrams; physical replicas for real world or mathematical objects; properties; actions or relationships EaS 2 EaS 4 CW 2 CW 3

Organise - To arrange; to systematise or methodise

Outline - To make a summary of the **BW 3** significant features of a subject

**Plan** - To devise or project a method or a course of action NoS 3

**Produce** - To bring into existence by NoS 4 intellectual or creative ability

Research - To inquire specifically, using involved and critical investigation

NoS 6 NoS 9 EaS 6 PW 4 PW 8 BW 5

**Review** - To re-examine deliberately or critically, usually with a view to approval or dissent; to analyse results for the purpose of giving an opinion NoS 5

**Recognise** - Identify facts, characteristics or concepts that are critical (relevant / appropriate) to the understanding of a situation, event, process or phenomenon NoS 2

**Reflect** - To consider in order to correct or improve NoS 5

**Use** - Apply knowledge or rules to put theory into practice

EaS 4 CW 2 CW 5 CW 8 CW 9 PW 1

Understanding about Science

Investigating in Science

Communicating in Science

Science in Society

**Building Blocks** 

**BW 7** 

System & Interactions

Energy

Sustainability

NoS = Nature of Science

EaS = Earth & Space

CW = Chemical World

PW = Physical World

BW = Biological World

Adapted from the Junior Cycle Science Curriculum Specification available at www.curriculumonline.ie

More science resources available at www.jct.ie/science/science.php